certificate ID
2BM32

Corganics CBD Pain Cream

7USC1639 Certificate of Analysis

Lot#22c0165011

issue date 2/17/22 12:01 PM

This Product Has Been Tested and Complies with 7USC1639o(1)

Stillwater Laboratories

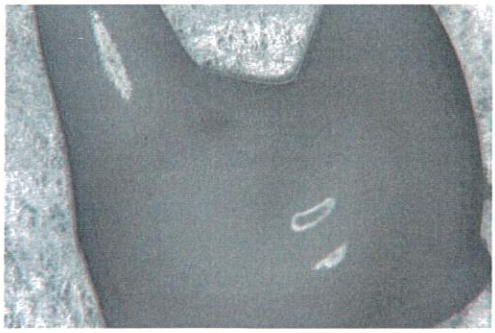
13142
order

total cannabinoids per
10.2mg mL

total THC‡ ND
total CBD‡ 9.4mg

Incoming Inspection MSP-7.5.1.2

DESCRIPTION: Topical sample received 2/15/2022 2:44:22 PM in a client-labeled bottle, by commercial courier per Method 7.3.1.1. and as described in the Montana METRC Lab User Guide. Labeled Lot.



caryophyllene
humulene
terpinolene
ocimene
beta pinene
alpha pinene
limonene
myrcene
linalool

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Potency MSP-7.5.1.4

	per	mL	LOD	LOQ	error
total cannabinoids		**10.2mg**			**0.02 I 0.06 I ±0.24mg**
total THC‡		**ND**			**0.02 I 0.06 I ±0.06mg**
total THC (THC+THCa)		**ND**			**0.02 I 0.06 I ±0.06mg**
total CBD‡		9.4mg			0.02 I 0.06 I ±0.23mg
total CBD (CBD+CBDa)		9.4mg			0.02 I 0.06 I ±0.23mg
tetrahydrocannabolic acid (THCa)		ND			0.02 I 0.06 I ±0.06mg
Δ9-tetrahydrocannabinol (Δ9 THC)		ND			0.02 I 0.06 I ±0.06mg
Δ8-tetrahydrocannabinol (Δ8 THC)*		ND			0.03 I 0.08 I ±0.08mg
tetrahydrocannabivarin (THCv)		ND			0.02 I 0.06 I ±0.06mg
cannabidiolic acid (CBDa)		ND			0.02 I 0.05 I ±0.05mg
cannabidiol (CBD)		9.4mg			0.02 I 0.06 I ±0.23mg
cannabidivarin (CBDv)		<LOQ			0.02 I 0.06 I ±0.06mg
cannabigerolic acid (CBGa)		ND			0.02 I 0.05 I ±0.05mg
cannabigerol (CBG)		0.3mg			0.01 I 0.02 I ±0.02mg
cannabinol (CBN)		0.3mg			0.01 I 0.03 I ±0.04mg
cannabichromene (CBC)		0.2mg			0.02 I 0.06 I ±0.06mg

Terpenes MSP-7.5.1.6

		LOD	LOQ	error
total terpenes	**ND**			**0.0008 I 0.0025 I ±0.0025%**
linalool	ND			<0.0010 I 0.0012 I ±0.0012%
β-myrcene	ND			0.0009 I 0.0027 I ±0.0027%
D-limonene	ND			0.0005 I 0.0016 I ±0.0016%
α-pinene	ND			<0.0010 I 0.0010 I ±0.0010%
β-pinene	ND			0.0007 I 0.0022 I ±0.0022%
ocimene	ND			0.0015 I 0.0045 I ±0.0045%
terpinolene	ND			0.0011 I 0.0032 I ±0.0032%
α-humulene	ND			0.0007 I 0.0022 I ±0.0022%
β-caryophyllene	ND			0.0020 I 0.0061 I ±0.0061%
α-bisabolol	ND			0.0016 I 0.0049 I ±0.0049%
camphene	ND			0.0009 I 0.0028 I ±0.0028%
Δ3-carene	ND			0.0040 I 0.0121 I ±0.0121%
caryophyllene oxide	ND			0.0026 I 0.0078 I ±0.0078%
para-cymene	ND			0.0152 I 0.0457 I ±0.0457%
eucalyptol	ND			0.0021 I 0.0064 I ±0.0064%
geraniol	ND			0.0064 I 0.0191 I ±0.0191%
guaiol	ND			0.0020 I 0.0061 I ±0.0061%
isopulegol	ND			0.0020 I 0.0060 I ±0.0060%
cis-nerolidol	ND			0.0034 I 0.0102 I ±0.0102%
trans-nerolidol	ND			0.0017 I 0.0051 I ±0.0051%
α-terpenine	ND			0.0011 I 0.0032 I ±0.0032%

Pass / Fail Criteria

Microbial (Plating) MSP-7.5.1.10

FAIL: no failures
PASS: E.coli, Salmonella sp., molds

Mycotoxins MSP-7.5.1.8

FAIL: no failures
PASS: Ochratoxin A, Aflatoxin B1B2G1G2, Aflatoxin B1. Aflatoxin B2. Aflatoxin G1.

Moisture MSP-7.5.1.3

not required / not requested

Metals MSP-7.5.1.7

FAIL: no failures
PASS: Arsenic, Cadmium, Lead, Mercury

Pesticides MSP-7.5.1.8

FAIL: no failures
PASS: Abamectin, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chloantraniliprole, Chlorpyrifos, Clofentezine, Coumaphos, Cyfluthrin, Cypermethrin, Daminozide, Dichlorvos, Diazinon, Dimethoate, Etoxazole, Fenoxycarb, Fenpyroximate, Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Malathion, Metalaxyl, Methiocarb, Methomyl, Mevinphos, Myclobutanil, Naled, Oxamyl, Paclobutrazol, Permethrin, Phosmet, Piperonylbutoxide, Prallethrin, Propiconazole, Propoxur, Pyrethrin, Pyridaben, Spinetoram, Spinosad, Spiromesifen, Spirotetramat, Spiroxamine, Tebuconazole, Thiacloprid, Thiamethoxam, Trifloxystrobin

Solvents MSP-7.5.1.7

FAIL: no failures
PASS: Acetone, Acetonitrile, Benzene, Butane, Chloroform, Cyclohexane, Ethanol, Heptane, Hexane, Isopropyl alcohol, Methanol, Pentane, Propane, Toluene, Xylenes

Analysis Location:L-00001

Certified by:

ACCREDITED
CERT #s 4961.01, 4961.02 & 4961.03

https://customer.a2la.org/index.cfm?event=directory.detail&labPID=423635B2-5128-4C6F-871A-419DCF43B0D7

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These results are only valid for the samples tested. • Potency (cannabinoid concentration) is calcuated as: [cannabioid] = $[\text{cannabinoid}]_{HPLC} \times \text{volume}_{dilution}/m_{dry}$. •• Decarboxyted cannabinoid concentration is calculated $XXX_{total} = 0.877 \times XXXa + XXX$ ••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection ($3.3s_i$), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula $s_g^2 = \sum(\partial f/\partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from: (concentration) $\pm t_{CL90} \times s_g$. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed, * = analyte is off-scope.

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ANALYTICAL DATA

Report Version: 1
Analysis Location: L-00001

Stillwater Laboratories

Corganics CBD Pain Cream

Lot#22c0165011

order 13142
rec'd date 2/15/2022 2:44:22 PM
issue date 2/17/2022 12:01:16 PM

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Methods and Instruments

MSP-7.3.1.1	BAL-05	2/15/2022	L-00001	MSP-7.5.1.7	QP2020/HS20	2/16/2022	L-00001
MSP-7.5.1.2	YSC HD801m12	2/16/2022		MSP-7.5.1.8	LCMS8060	2/16/2022	
MSP-7.5.1.3	6MOC63u	2/16/2022		MSP-7.5.1.8	LCMS8060	2/16/2022	
MSP-7.5.1.4	LC-2030C	2/16/2022	L-00001	MSP-7.5.1.10A	Hardy Diag	2/16/2022	
MSP-7.5.1.6	QP2020/HS20	2/16/2022	L-00001	MSP-7.5.1.11	ICPMS2030	2/16/2022	

Mycotoxins MSP-7.5.1.8

		limit	LOD LOQ error	result
Ochratoxin A	ND	20 ppb	0.3 I 0.8 I ±0.8 ppb	PASS
Aflatoxin B1B2G1G2	ND	20 ppb	0.3 I 0.8 I ±0.8 ppb	PASS

Microbial (Plating) MSP-7.5.1.10

		limit	LOD LOQ error	result
E.coli	ND	0CFU	0.0 I 0.1 I ±0.1CFU	PASS
Salmonella sp.	ND	0CFU	0.0 I 0.1 I ±0.1CFU	PASS
molds	ND	10000CFU	1.6 I 4.8 I ±4.8CFU	PASS

Solvents MSP-7.5.1.7

		limit	LOD LOQ error	result
Acetone	ND	5000 ppm	0.7 I 2.1 I ±2.1 ppm	PASS
Acetonitrile	ND	410 ppm	0.6 I 1.9 I ±1.9 ppm	PASS
Benzene	ND	0 ppm	0.0 I 0.1 I ±0.1 ppm	PASS
Butane	ND	5000 ppm	1.4 I 4.2 I ±4.2 ppm	PASS
Chloroform	ND	0 ppm	0.1 I 0.2 I ±0.2 ppm	PASS
Cyclohexane	ND	0 ppm	0.5 I 1.6 I ±1.6 ppm	PASS
Ethanol	ND	10000 ppm	0.7 I 2.2 I ±2.2 ppm	PASS
Heptane	ND	5000 ppm	0.4 I 1.3 I ±1.3 ppm	PASS
Hexane	ND	290 ppm	0.5 I 1.6 I ±1.6 ppm	PASS
Isopropyl alcohol	ND	5000 ppm	0.6 I 1.9 I ±1.9 ppm	PASS
Methanol	ND	3000 ppm	0.5 I 1.6 I ±1.6 ppm	PASS
Pentane	ND	5000 ppm	0.2 I 0.6 I ±0.6 ppm	PASS
Propane	ND	5000 ppm	0.5 I 1.6 I ±1.6 ppm	PASS
Toluene	ND	890 ppm	0.3 I 0.9 I ±0.9 ppm	PASS
Xylenes	ND	2170 ppm	0.3 I 1.0 I ±1.0 ppm	PASS

Metals MSP-7.5.1.7

		limit	LOD LOQ error	result
Arsenic	ND	1500 ppb	7.8 I 23.4 I ±23.4 ppb	PASS
Cadmium	ND	500 ppb	8.4 I 25.2 I ±25.2 ppb	PASS
Lead	ND	500 ppb	13.1 I 39.2 I ±39.2 ppb	PASS
Mercury	ND	300 ppb	6.6 I 19.7 I ±19.7 ppb	PASS

These results are only valid for the samples tested. • Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection ($3.3s_i$), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula $s_g^2 = \sum(\partial f/\partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from: (concentration) ± t_{CL90} x s_g. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable.

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Pesticides MSP-7.5.1.8

		limit	LOD LOQ error	result
Abamectin	ND	0.30 ppm	0.005 I 0.014 I ±0.014 ppm	PASS
Acephate	ND	5.00 ppm	0.005 I 0.014 I ±0.014 ppm	PASS
Acequinocyl	ND	4.00 ppm	0.004 I 0.012 I ±0.012 ppm	PASS
Acetamiprid	ND	5.00 ppm	0.003 I 0.010 I ±0.010 ppm	PASS
Aldicarb	ND	0.00 ppm	0.001 I 0.004 I ±0.004 ppm	PASS
Azoxystrobin	ND	40.00 ppm	0.001 I 0.004 I ±0.004 ppm	PASS
Bifenazate	ND	5.00 ppm	0.001 I 0.003 I ±0.003 ppm	PASS
Bifenthrin	ND	0.50 ppm	0.001 I 0.002 I ±0.002 ppm	PASS
Boscalid	ND	10.00 ppm	0.013 I 0.040 I ±0.040 ppm	PASS
Carbaryl	ND	0.50 ppm	0.005 I 0.016 I ±0.016 ppm	PASS
Carbofuran	ND	0.00 ppm	0.001 I 0.003 I ±0.003 ppm	PASS
Chloantraniliprole	ND	40.00 ppm	0.013 I 0.038 I ±0.038 ppm	PASS
Chlorfenapyr	NT	0.00 ppm		NA
Chlorpyrifos	ND	0.00 ppm	0.026 I 0.079 I ±0.079 ppm	PASS
Clofentezine	ND	0.50 ppm	0.005 I 0.015 I ±0.015 ppm	PASS
Coumaphos	ND	0.00 ppm	0.003 I 0.010 I ±0.010 ppm	PASS
Cyfluthrin	ND	1.00 ppm	0.005 I 0.014 I ±0.014 ppm	PASS
Cypermethrin	ND	1.00 ppm	0.003 I 0.010 I ±0.010 ppm	PASS
Daminozide	ND	0.00 ppm	0.018 I 0.054 I ±0.054 ppm	PASS
Dichlorvos	ND	0.00 ppm	0.009 I 0.028 I ±0.028 ppm	PASS
Diazinon	ND	0.20 ppm	0.001 I 0.002 I ±0.002 ppm	PASS
Dimethoate	ND	0.00 ppm	0.001 I 0.004 I ±0.004 ppm	PASS
Etoxazole	ND	1.50 ppm	0.002 I 0.007 I ±0.007 ppm	PASS
Fenoxycarb	ND	0.00 ppm	0.002 I 0.007 I ±0.007 ppm	PASS
Fenpyroximate	ND	2.00 ppm	0.001 I 0.002 I ±0.002 ppm	PASS
Fipronil	ND	0.00 ppm	0.005 I 0.015 I ±0.015 ppm	PASS
Flonicamid	ND	2.00 ppm	0.064 I 0.192 I ±0.192 ppm	PASS
Fludioxonil	ND	30.00 ppm	0.004 I 0.013 I ±0.013 ppm	PASS
Hexythiazox	ND	2.00 ppm	0.001 I 0.002 I ±0.002 ppm	PASS
Imazalil	ND	0.00 ppm	0.004 I 0.013 I ±0.013 ppm	PASS
Imidacloprid	ND	3.00 ppm	0.001 I 0.002 I ±0.002 ppm	PASS
Malathion	ND	5.00 ppm	0.003 I 0.010 I ±0.010 ppm	PASS
Metalaxyl	ND	15.00 ppm	0.005 I 0.015 I ±0.015 ppm	PASS
Methiocarb	ND	0.00 ppm	0.002 I 0.007 I ±0.007 ppm	PASS
Methomyl	ND	0.10 ppm	<0.001 I 0.001 I ±0.001 ppm	PASS
Methyl parathion	NT	0.00 ppm		NA
Mevinphos	ND	0.00 ppm	0.003 I 0.010 I ±0.010 ppm	PASS
Myclobutanil	ND	9.00 ppm	0.001 I 0.002 I ±0.002 ppm	PASS
Naled	ND	0.50 ppm	0.003 I 0.010 I ±0.010 ppm	PASS
Oxamyl	ND	0.20 ppm	0.001 I 0.004 I ±0.004 ppm	PASS
Paclobutrazol	ND	0.00 ppm	0.002 I 0.005 I ±0.005 ppm	PASS
Permethrin	ND	20.00 ppm	0.006 I 0.019 I ±0.019 ppm	PASS
Phosmet	ND	0.20 ppm	0.002 I 0.006 I ±0.006 ppm	PASS
Piperonylbutoxide	ND	8.00 ppm	0.007 I 0.020 I ±0.020 ppm	PASS
Prallethrin	ND	0.40 ppm	0.002 I 0.007 I ±0.007 ppm	PASS
Propiconazole	ND	20.00 ppm	0.002 I 0.007 I ±0.007 ppm	PASS
Propoxur	ND	0.00 ppm	0.004 I 0.011 I ±0.011 ppm	PASS
Pyrethrin	ND	1.00 ppm	0.002 I 0.005 I ±0.005 ppm	PASS
Pyridaben	ND	3.00 ppm	0.001 I 0.002 I ±0.002 ppm	PASS
Spinetoram	ND	3.00 ppm	0.002 I 0.007 I ±0.007 ppm	PASS
Spinosad	ND	3.00 ppm	0.004 I 0.013 I ±0.013 ppm	PASS
Spiromesifen	ND	12.00 ppm	0.002 I 0.006 I ±0.006 ppm	PASS
Spirotetramat	ND	13.00 ppm	0.002 I 0.005 I ±0.005 ppm	PASS
Spiroxamine	ND	0.00 ppm	0.001 I 0.002 I ±0.002 ppm	PASS
Tebuconazole	ND	2.00 ppm	0.003 I 0.010 I ±0.010 ppm	PASS
Thiacloprid	ND	0.10 ppm	0.001 I 0.002 I ±0.002 ppm	PASS
Thiamethoxam	ND	4.50 ppm	0.002 I 0.006 I ±0.006 ppm	PASS
Trifloxystrobin	ND	30.00 ppm	0.001 I 0.004 I ±0.004 ppm	PASS

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